




Examiner Signature		Date Considered	1/27/06
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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention

ETENDUE SQUEEZING ILLUMINATION OPTICS

Application Number : 10/772088



Confirmation Number: 2569

First Named Applicant: Juan Minano

Attorney Docket Number: 3084.021

Art Unit: 2875

Examiner: Jacob Y Choi

Search string: (4188111 or 4384769 or 5343330 or 6222623 or 6356700 or 6896381 or 20020163808 or 20040252390 or 20040228131 or 20040246606 or 20050024744 or 20050086032 or 20050088758).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
JL	1	4188111	1980-02-12	Marvin	—	—	—
JL	2	4384769	1983-05-24	Brei, et al	—	—	—
JL	3	5343330	1984-08-30	Hoffman, et al	—	—	—
JL	4	6222623	2001-04-24	Wetherell	—	—	—
JL	5	6356700	2002-03-12	Strobl	—	—	—
JL	6	6896381	2005-05-24	Benitez	—	—	—

US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
JL	1	20020163808	2002-11-07	West	—	—	—
JL	2	20040252390	2004-02-13	Benitez	—	—	—
JL	3	20040228131	2004-11-18	Minano, et al	—	—	—
JL	4	20040246606	2004-12-09	Benitez et al.	—	—	—
JL	5	20050024744	2005-02-03	Falicoff	—	—	—
JL	6	20050086032	2005-04-21	Benitez	—	—	—
JL	7	20050088758	2005-04-28	Minano et al.	—	—	—

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1/27/06

ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention

Etendue squeezing illumination optics

Application Number : 10/772088
Confirmation Number: 2569
First Named Applicant: Juan Minano
Attorney Docket Number: 3084.021
Art Unit: 2875
Examiner: Jacob Y. Choi
Search string: (6783269 or 6924943).pn



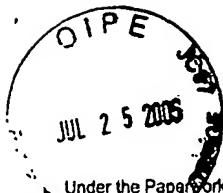
US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
JC	1	6783269	2004-08-31	Pashley			
JC	2	6924943	2005-08-02	Minano et al.			

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	1/27/06



PTO/SB/08a (08-03)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	10/772,088		
		Filing Date	2/3/2004		
		First Named Inventor	Minano et al.		
		Art Unit	2875		
		Examiner Name	Choi		
Sheet	1	of	1	Attorney Docket Number	3084.021

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JL		International Search Report. PCT/US03/38024, November 10, 2004.	
JL		International Search Report. PCT/US04/14938, March 1, 2005.	

Examiner Signature		Date Considered	01/27/06
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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

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Title of Invention	ETENDUE-SQUEEZING ILLUMINATION OPTICS
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Application Number : 10/772088



Confirmation Number: 2569

First Named Applicant: Juan Minano

Attorney Docket Number: 3084.021

Art Unit: 2875

Examiner: Jacob Y. Choi

Search string: (1399973 or 3760237 or 3774021 or 3938177 or 4638343 or 4727457 or 5055892 or 5438453 or 5528474 or 5557471 or 5580142 or 5865529 or 5898809 or 6139166 or 6201229 or 6350041 or 6361190 or 6488392 or 6502964 or 6504301 or 6547400 or 6580228 or 6621222 or 6679621 or 6786625 or 6796698 or 6803607 or 6811277 or 2362176 or 2908197 or 4211955 or 4388673 or 4464707 or 4727289 or 5655830 or 6019493 or 20050117125 or 20050129358).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
JL	1	1399973	1921-12-13	Limpert			
JL	2	3760237	1973-09-18	Jaffe			
JL	3	3774021	1973-11-20	Johnson			
JL	4	3938177	1976-02-10	Hansen, et al.			
JL	5	4638343	1987-07-01	Althaus, et al.			
JL	6	4727457	1988-02-23	Thillays			
JL	7	5055892	1991-10-08	Gardner, et al.			
JL	8	5438453	1995-08-01	Kuga			
JL	9	5528474	1996-06-18	Roney, et al.			
JL	10	5557471	1996-09-17	Fernandez			
JL	11	5580142	1996-12-03	Kurematsu, et al.			
JL	12	5865529	1999-02-02	Yan			
JL	13	5898809	1999-04-27	Taboada, et al.			
JL	14	6139166	2000-10-31	Marshall, et al.			
JL	15	6201229	2001-03-13	Tawa, et al.			
JL	16	6350041	2002-02-26	Tarsa, et al.			
JL	17	6361190	2002-03-26	McDermott			
JL	18	6488392	2002-12-03	Lu			
JL	19	6502964	2003-01-07	Simon			


JL	20	6504301	2003-01-07	Lowery	—	—	—
JL	21	6547400	2003-04-15	Yokoyama	—	—	—
JL	22	6580228	2003-06-17	Chen, et al.	—	—	—
JL	23	6621222	2003-09-16	Hong	—	—	—
JL	24	6679621	2004-01-20	West	—	—	—
JL	25	6786625	2004-09-07	Wesson	—	—	—
JL	26	6796698	2004-09-28	Sommers, et al.	—	—	—
JL	27	6803607	2004-10-12	Chan, et al.	—	—	—
JL	28	6811277	2004-11-02	Amano	—	—	—
JL	29	2362176	1944-11-07	Swanson	—	—	—
JL	30	2908197	1959-10-13	Wells, et al.	—	—	—
JL	31	4211955	1980-07-08	Ray	—	—	—
JL	32	4388673	1983-06-14	Maglica	—	—	—
JL	33	4464707	1984-08-07	Forrest	—	—	—
JL	34	4727289	1988-02-23	Uchida	—	—	—
JL	35	5655830	1997-08-12	Ruskouski	—	—	—
JL	36	6019493	2000-02-01	Kuo, et al.	—	—	—

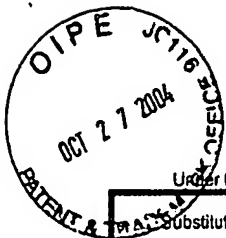
US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

init	Cite.No.	Pub. No.	Date	Applicant	Kind	Class	Subclass
JL	1	20050117125	2005-06-02	Minano, et al.	—	—	—
JL	2	20050129358	2005-06-16	Minano, et al.	—	—	—

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Examiner Name	Date
	8/1/27/06



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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 1

Complete if Known

Application Number	10/772,088
Filing Date	2/3/2004
First Named Inventor	Minano et al.
Art Unit	2624-2875
Examiner Name	Jaeh Y. Choi
Attorney Docket Number	3084.021

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
JL		USSN 10/903,925	07-29-2004	Falicoff	
JL		USSN 10/901,919	07-28-2004	Benitez	
JL		USSN 10/880,386	06-28-2004	Benitez, et al	
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ^o
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
JL		ES 2142752	12/01/2000	Universidad Politécnica de Madrid		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
JL		Benitez, P. "Chapter 6: The SMS design method in three dimensions", from <i>Conceptos avanzados de óptica anidólica: diseño y fabricación</i> , PhD dissertation, UPM, (1998).	
JL		Benitez, P.; Mohedano, R.; Minano, J. "Design in 3D geometry with the Simultaneous Multiple Surface design method of Nonimaging Optics" Instituto de Energia Solar, E.T.S.I. Telecomunicacion, Universidad Politecnica, 28040. Madrid, Spain. (July 1999).	
JL		International Search Report. PCT/US03/38240, July 26, 2004.	

Examiner Signature		Date Considered	11/27/06
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Title of Invention

ETENDUE SQUEEZING ILLUMINATION OPTICS

Application Number : 10/772088



Confirmation Number: 2569

First Named Applicant: Juan Minano

Attorney Docket Number: 3084.021

Art Unit: ~~2624~~ 2825

Examiner: Jacob Y. Choi

Search string: (6282821 or 6483976 or 6688758 or 20020034012 or 20040070855 or 20040105171 or 20040189933).pn

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
JL	1	6282821	2001-09-04	Freier	—	—	—
JL	2	6483976	2002-11-19	Shie, et al	—	—	—
JL	3	6688758	2004-02-10	Thibault	—	—	—

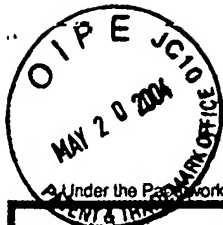
US Published Applications

Note: Applicant is not required to submit a paper copy of cited US Published Applications

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JL	1	20020034012	2002-03-21	Santoro, et al	—	—	—
JL	2	20040070855	2004-04-15	Benitez	—	—	—
JL	3	20040105171	2004-06-03	Minano	—	—	—
JL	4	20040189933	2004-09-30	Sun	—	—	—

Signature

Examiner Name	Date
	01/27/06



PTO/SB/08A (06-03)

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		Application Number	10/772,088		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date	2/3/2004		
		First Named Inventor	Minano et al.		
		Art Unit	2621 2875		
		Examiner Name	Jaesb Y. Choi		
Sheet	1	of	2	Attorney Docket Number	3084.021

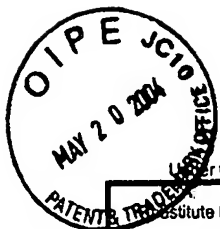
U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
JK		US appl no. 10/269,479	10-11-2002	Benitez	
JK		US appl no. 10/461,557	06-12-2003	Minano	
JK		US appl no. 10/622,874	07-18-2003	Minano	
JK		US appl no. 10/728,130	12-01-2003	Minano, et al.	
JK		US appl no. 10/779,259	02-13-2004	Benitez	
JK		US appl no. 10/814,598	03-30-2004	Chaves, et al.	
JK		US appl no. 10/816,228	03-31-2004	Chaves, et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
JK		SU 1282051 A1	01-07-1987	Spigulis		
JK		EP 0 450 580 A2	10-09-1991	Totah, et al.		
JK		WO 99/09349	02-25-1999	De Coma International Inc.		
JK		WO 99/13268	03-18-1999	Simon		
JK		WO 01/07828 A1	02-01-2001	Peika		
JK		WO 03/086374 A2	08-14-2003	Steen, et al.		
JK		WO 03/086374 A3	08-14-2003	Steen		
JK		WO 04/007241 A2	01-22-2004	Steen, et al.		

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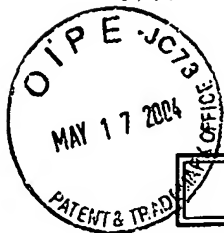
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/772,088
				Filing Date	2/3/2004
				First Named Inventor	Minano et al.
				Art Unit	2621-2825
Sheet	2	of	2	Examiner Name	Jacob Y. Choi
				Attorney Docket Number	3084.021

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JL		Remillard, Everson and Weber, "Loss Mechanisms Optical Light Pipes" <i>Applied Optics</i> Vol 31 #34 pp. 7232-7241 December 1992.	
JL		Parkyn et al "The Black Hole™: Cusped waveguide-injectors and illuminators for LEDs; Part of the SPIE Conference on Nonimaging Optics: Maximum Efficiency Light Transfer V, Denver, CO, July 1999.	
JL		Hyper ARGUS®LED, Hyper-Bright, 3mm (T1) LED, Non Diffused; 3-1-2000; Infineon Technologies, pp. 1-9.	
JL		Spigulis, "Compact dielectric reflective elements, Half-sphere concentrators of radially emitted light" <i>Applied Optics</i> Vol. 33, No. 25, September 1994.	
JL		International Search Report. PCT/US03/32076. 04-20-2004.	

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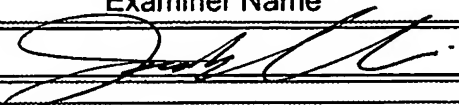
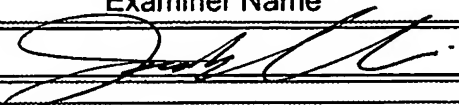
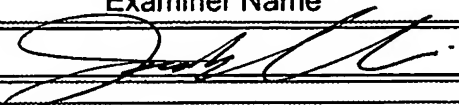
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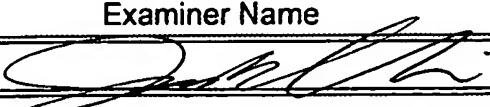
Electronic Version v18
Stylesheet Version v18.0

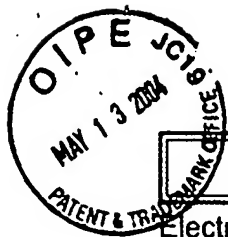
Title of Invention	Etendue-squeezing illumination optics																																				
<p>Application Number: 10/772088 </p> <p>Confirmation Number: 2569</p> <p>First Named Applicant: Juan Minano</p> <p>Attorney Docket Number: 3084.021</p> <p>Art Unit: 2624-2875 Examiner: Jacob Y. Choi Au: 2875</p> <p>Search string: (6166866 or 6268963 or 6301064).pn.</p> <p>US Patent Documents</p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td>JL</td><td>1</td><td>6166866</td><td>2000-12-26</td><td>Kimura et al.</td><td></td><td></td><td></td></tr><tr><td>J</td><td>2</td><td>6268963</td><td>2001-07-31</td><td>Akiyama</td><td></td><td></td><td></td></tr><tr><td>JL</td><td>3</td><td>6301064</td><td>2001-10-09</td><td>Araki et al.</td><td></td><td></td><td></td></tr></tbody></table> <p>Signature</p> <table border="1"><thead><tr><th>Examiner Name</th><th>Date</th></tr></thead><tbody><tr><td></td><td>1/27/06</td></tr></tbody></table>		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass	JL	1	6166866	2000-12-26	Kimura et al.				J	2	6268963	2001-07-31	Akiyama				JL	3	6301064	2001-10-09	Araki et al.				Examiner Name	Date		1/27/06
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JL	1	6166866	2000-12-26	Kimura et al.																																	
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JL	3	6301064	2001-10-09	Araki et al.																																	
Examiner Name	Date																																				
	1/27/06																																				



ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18
Stylesheet Version v18.0

Title of Invention	Etendue squeezing illumination optics						
Application Number: 10/772088 							
Confirmation Number: 2569							
First Named Applicant: Juan Minano							
Attorney Docket Number: 3084.021							
Art Unit: 2621 2875 Examiner: Jacob Y. Choi AU: 2875							
Search string: (6646813 or 6647199 or 6674096 or 20020080623 or 20030076034),pn.							
US Patent Documents							
Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
JL	1	6646813	2003-11-11	Falicoff			
JL	2	6647199	2003-11-11	Pelka, et al.			
JL	3	6674096	2004-01-06	Sommers			
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Note: Applicant is not required to submit a paper copy of cited US Published Applications							
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JL	1	20020080623	2002-06-27	Pashley			
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		1/27/06					



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Title of
Invention

ETENDUE-SQUEEZING ILLUMINATION OPTICS

Application Number: 10/772088

Att. 2875



Confirmation Number: 2569

Examiner: Jacob Y. Choi

First Named Applicant: Juan Minano

Attorney Docket Number: 3084.021

Search string: (1977689 or 2254961 or 4192994 or 4337759
or 4342908 or 4675725 or 4698730 or 4920404
or 5140220 or 5302778 or 5335157 or 5404282
or 5404869 or 5452190 or 5577492 or 5608290
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or 5777433 or 5806955 or 5813743 or 5894195
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or 5926320 or 5966250 or 6030099 or 6044196
or 6048083 or 6166860 or 6177761 or 6181476
or 6273596 or 6450661 or 6473554 or 6536923
or 6547423 or 6560038 or 6578989 or 6582103
or 6598998 or 6603243 or 6607286 or 6616287
or 6637924 or 6639733).pn.

US Patent Documents


Note: Applicant is not required to submit a paper copy of cited US Patent Documents

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JL	50	6639733	2003-10-28	Minano, et al	_____

Signature

Examiner Name	Date
	1/27/06